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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/810,117 | 03/25/2004 | James Schleicher | ALTRP189/A1043 | 8048 |

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| EXAMINER |
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CHO, JAMES HYONCHOL

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| ART UNIT | PAPER NUMBER |
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2819

DATE MAILED: 05/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/810,117

Applicant(s)

SCHLEICHER ET AL.

Examiner

James Cho

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4-10-2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 16-24 is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 3-15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3-13-2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4-10-2006 has been entered.

Drawings

The drawings were received on 3-13-2006. These drawings are not acceptable.

Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Pedersen (US PAT No. 6,798,240).

Regarding claim 1, Fig. 5 of Pedersen teaches a logic circuit including; a plurality of look up tables (530s and 550s) driven by a plurality of select inputs (A1, A2, B1, B2, C1, C2, Vcc where a particularly selected Vcc input is inherently required for 4LUT to function, i.e. 4LUT is driven or powered by Vcc input), each of the plurality of LUTS included either in a first group of LUTS (530s) or a second group of LUTS (550s); at least one (A1) of the plurality of select inputs driving each of the plurality of LUTS; at least a second (A2) of the plurality of select inputs driving each LUT in the first group of LUTS and connectable to drive at least one of the LUTS in the second group of LUTS (550); at least a third (B1) of the plurality of select inputs connectable to drive at least one of the LUTS in the first group of LUTS; at least two LUTS (two 530) in the first group of LUTS each driving a first multiplexer (570) and a second MUX (second 570); and at least a fourth (signals at either 506a or 506b) of the plurality of select inputs driving a control input of the first MUX; at least a fifth select input (B2) driving each LUT in the second group of LUTS and connectable to drive at least one of the LUTS in the first group of LUTS (505 receives B2 via 535, col. 13, lines 29-34), at least a select sixth input (C2 via 555) of the plurality of select inputs connectable to drive at least one of the LUTS in the second group of LUTS; at least two LUTS in the second group of LUTS each driving a third MUX (590) and a fourth MUX (590); and at least a seventh select input (Vcc coupled to the control input of 590 via 516b) of the plurality of select inputs driving a control input of the third MUX (590).

Response to Arguments

Applicant's arguments filed March 13, 2006 have been fully considered but they are not persuasive. On page 9 of the applicant's response, the applicant argues that the Vcc signal is not a select signal that is used to drive any of LUTs of the Pederson reference. The examiner notes that the signal Vcc is inherently required for LUTs of the Pederson to function properly, i.e. LUTs of the Pederson are driven or powered by the signal Vcc where a particular Vcc is being selected and applied to a control input of the third MUX 590 as shown in Fig. 5 of the Pederson. The examiner further notes that the Vcc signal to the LUTs of the Pederson is also responsible for selecting data within a LUT since without the Vcc signal the LUT would not properly function.

Allowable Subject Matter

Claims 16-24 are allowable over the prior art of record.

Claims 3-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter was indicated in the Office action mailed July 26, 2005.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Cho whose telephone number is 571-272-1802. The examiner can normally be reached on M-F 6:30 AM - 3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on 571-272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "James Cho".

James Cho
Primary Examiner
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